

Assessment of Road Safety Aspects of NH-9

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Abstract:

In the present study, related to the assessment of road safety aspects of Bahadurgarh- Rohtak by-pass NH-9 was selected based on the survey of different sets of data were conducted and using these raw data a modelling based of suggestive guidelines of I.R.C. Codes were conducted.

Introduction:

In the present study, the data has been collected in respect to road sign, road signal, road marking, guardrails and delineators by making observation in the field and by taking the photograph of different sites. For this purpose the selected highway was divided in km wise for collecting desired data. After collecting the data it is presented in the form of tabulation further analysis.

Field Study and Data collection:

This road NH-9 was selected for assessment of road safety aspect. The present road has been declared as a six lane road that started from Bahadurgarh and ends at Rohtak city entrance i.e. Rohtak bypass. This highway is approximately 37 km long and runs entirely in the whole state of Haryana as shown in fig 4. The roads consist of plain and rolling terrain of mostly agriculture and rural settlement land and this national highway maintained and executed by national highways authority of India under the ministry of road transport and highways. The carriageway of the road is six lane divided carriageway. The present NH-9 was analysis for road safety aspect and operational phenomenon with respect to road furniture as per IRC guidelines.

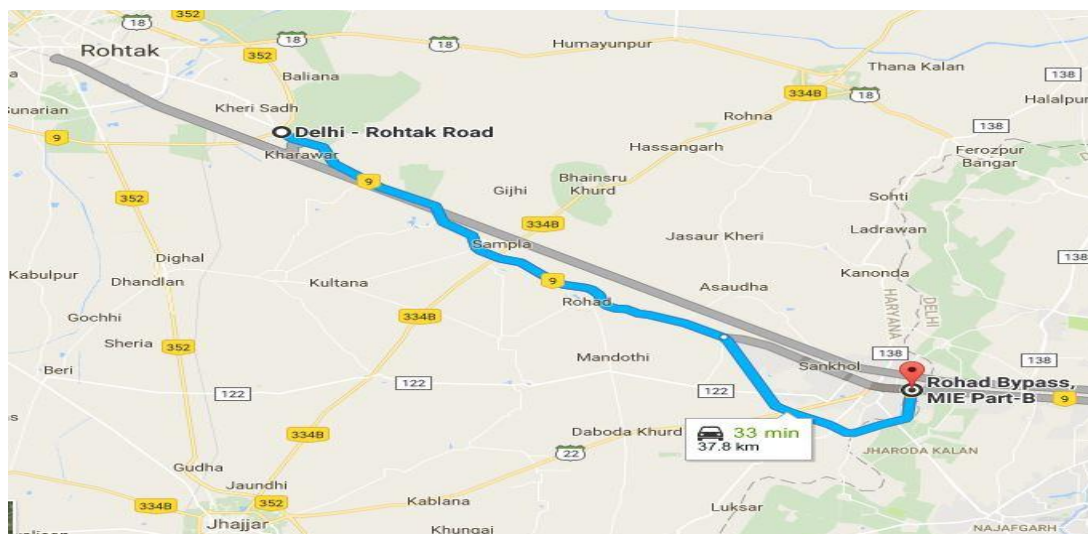


Figure 1 Google Map Showing Bahadurgarh- Rohtak by-pass (NH-9)

Severity of Accidents:

Severity of accidents can be expressed in term of two severity indices which can be calculated in the following two manners: The accident severity index measures the seriousness of an accident. It is defined as the number of persons killed per 100 accidents. In this table the road accidents of the present stretch represent the accident severity index for selected stretch of NH-9 in Haryana from April 2016 to January 2017.

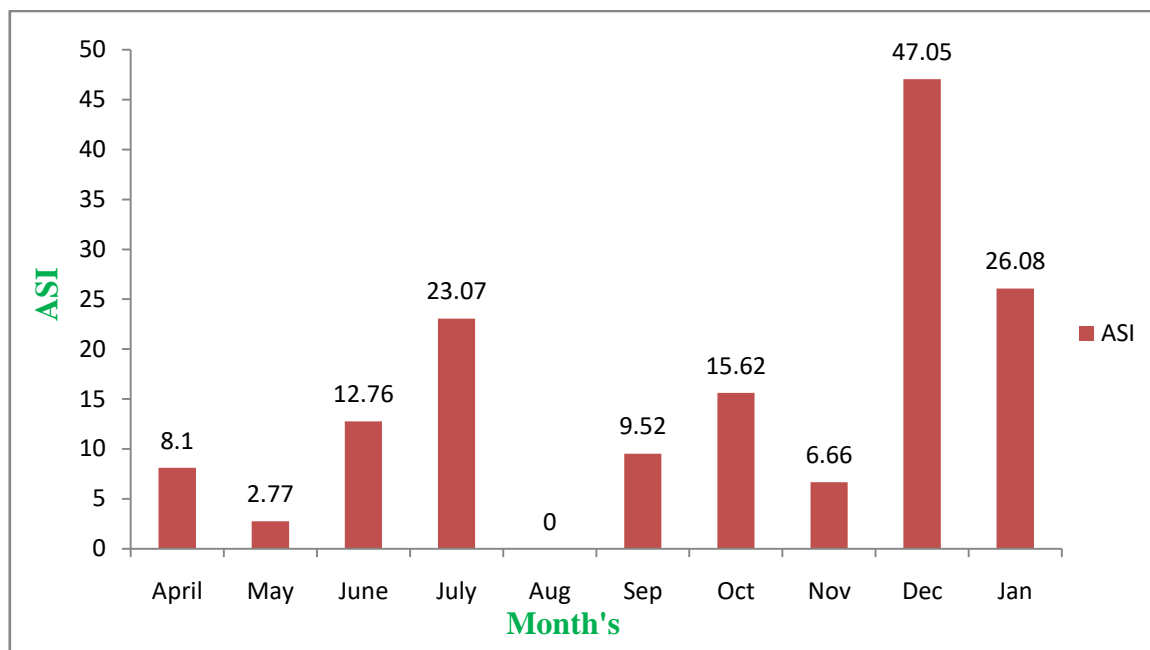


Figure 2 Accident Severity Index of NH-9

References:

1. IRC: 35-2015, “Code of practice for Road Marking”, Indian road congress, New Delhi.
2. IRC: 67-2012, “Code of Practise for Road Signs”, Indian Road Congress, New Delhi.
3. IRC: 79-1981, “Code of Practise for Road delineators”, Indian Road Congress, New Delhi.
4. IRC: 93-1985, “Guidelines on Design and Installation of Road Traffic Signals”, Indian Road Congress, New Delhi.
5. IRC: SP:88-2010, “Manual on Road Safety Audit” Indian Road Congress, New Delhi.
6. IRC: 53-1982 “ Road Accident Form A-1, , Indian Road Congress, New Delhi.
7. Dhamaniya,A. (2013) Development of Accident Prediction Model under Mixed Traffic Conditions: A Case Study, Third International Conference on Urban Public Transportation Systems.